



UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON NUCLEAR WASTE
WASHINGTON, DC 20555 - 0001

June 8, 2004

AGENDA
151st ACNW MEETING
JUNE 22-24, 2004

**TUESDAY, JUNE 22, 2004, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH,
ROCKVILLE, MARYLAND**

- 1) 10:00 - 10:10 A.M. Opening Statement (Open) (MTR/GMH/JTL)
The Chairman will provide opening remarks and items of interest and will then turn it over to the Working Group session chairman who will state the objectives and provide a overview of the next two days Working Group session. Invited experts will also be introduced at this time.

**WORKING GROUP: GEOSPHERE TRANSPORT OF RADIONUCLIDES AT THE
PROPOSED YUCCA MOUNTAIN HLW REPOSITORY** (Open) (GMH/NMC)

The purpose of this working group is to: 1) review the expected behavior of radionuclides in the tuff and valley-fill aquifers proximal to and south of Yucca Mountain, and 2) address the primary question: "For Yucca Mountain, do the conceptual models, mathematical implementations, and site data provide confidence that the geosphere can retard the transport of radionuclides?"

[The Working Group Session on June 22-23 will also be videoconferenced with the Department of Energy offices in Summerlin, Nevada. Contact Carol Hanlon (DOE) for details about the location of that videoconference facility. She can be reached at (702) 794-1324 or via e-mail at Carol_Hanlon@notes.ymp.gov]

- 2) 10:10 - 11:10 A.M. Keynote Presentation
 - 2.1) Views on radionuclide transport will be presented by **James Davis, USGS**, Menlo Park, CA. "A New Approach to Modeling Retardation by Sorption at the Field Scale"
 - 2.2) 10:50 - 11:10 A.M. - Discussion
- 3) 11:10 - 11:45 A.M. Regulatory Overview of Radionuclide Transport Issues
 - 3.1) 11:10 - 11:25 A.M. Presentation by **Keith Compton**, NRC's Office of Nuclear Material Safety and Safeguards
 - 3.2) 11:25 - 11:45 A.M.: Discussion

11:45 - 1:00 P.M. *LUNCH*****

- 4) 1:00 - 1:45 P.M. Overview of DOE's Assessment of the Model of Radionuclide Transport
 4.1) 1:00 - 1:30 P.M.: Presentation by **Robert Andrews**, DOE
 4.2) 1:30 - 1:45 P.M.: Discussion
- 5) 1:45 - 3:15 P.M. CNWRA Modeling of Site-Scale Saturated Zone Flow at Yucca Mountain
 5.1) 1:45 - 2:10 P.M.: Presentation by **James Winterle**, CNWRA
 5.2) 2:10 - 2:30 P.M.: Discussion
- Development of Sorption Parameters for Neptunium-237 in the Saturated Alluvium South of Yucca Mountain, Nevada
 5.3) 2:30 - 2:55 P.M.: Presentation by **Paul Bertetti**, CNWRA
 5.4) 2:55 - 3:15 P.M.: Discussion
- 3:15 - 3:30 P.M. ***BREAK*****
- 6) 3:30 - 4:15 P.M. Characteristics of Saturated Zone Transport at Yucca Mountain
 6.1) 3:30 - 4:00 P.M.: Presentation by **Al Aziz Eddebarh**, DOE
 6.2) 4:00 - 4:15 P.M.: Discussion
- 7) 4:15 - 5:15 P.M. Public Comments

WEDNESDAY, JUNE 23, 2004, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

WORKING GROUP: GEOSPHERE TRANSPORT OF RADIONUCLIDES AT THE PROPOSED YUCCA MOUNTAIN HLW REPOSITORY (Continued) (Open) (GMH/NMC)

- 8) 9:00 - 9:05 A.M. Opening Statement (MTR/GMH/NMC)
 The Working Group Chairman will make opening remarks regarding the conduct of today's sessions.
- 9) 9:05 - 10:05 A.M. NRC's Performance Assessment and Risk Perspective
 9.1) 9:05 - 9:40 A.M.: Presentation by **Tim McCartin**, NMSS, NRC
 9.2) 9:40 - 10:05 A.M.: Discussion

10:05 - 10:20 A.M. *BREAK*****

- 10) 10:20 - 12:45 P.M. Presentations by Representatives of the State of Nevada, Nye County, and the Electric Power Research Institute
- 10.1) **Don Shettel**, Geosciences Management Institute, Inc.
(representing State of Nevada)
- 10.2) **Les Bradshaw, Tom Buqo, and Dale Hammermeister**
(representing Nye Co., NV)
Basin-Wide Coordination of Water Resources
Definition, Development, and Management;
Nye County's Groundwater Evaluations;
Success Story: Sonic Coring in Fortymile Wash
- 10.3) **Michael Apted** (representing EPRI)

12:45 - 2:00 P.M. * LUNCH *****

- 11) 2:00 - 3:00 P.M. Working Group Roundtable Panel Discussion on Geosphere Transport at Yucca Mountain
Expert Panelists
James Davis, USGS Menlo Park, CA
Maury Morgenstein, Geosciences Management Institute, representing State of Nevada
Richard Parizek, Penn State University, and NWTRB member
Ines Triay, US DOE
- 12) 3:00 - 4:00 P.M. Committee Summary Discussion
- 13) 4:00 - 4:30 P.M. Public Comments
- 14) 4:30 - 4:35 P.M. Closing Comments by Working Group Session Chairman
- 15) 4:35 - 5:15 P.M. Preparation of ACNW Report (Open) (GMH/NMC)
Discussion of principal points in a potential ACNW report to the Commission on the results and observations from the Geosphere Transport Working Group.
- 5:15 P.M. Working Group Session Concluded.

Adjourn Day 2

THURSDAY, JUNE 24, 2004, CONFERENCE ROOM 2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND

- 16) 8:30 - 8:35 A.M. Opening Statement by the ACNW Chairman (Open)
(MTR/HJL)
The Acting Chairman will make opening remarks regarding the conduct of today's session.

- 17) 8:35 - 10:00 A.M. DOE Response to NRC Independent Evaluation of DOE Documents Supporting the Yucca Mountain License Application (YMLA) (Open) (MTR/MPL)
Briefing by and discussions with DOE representatives regarding the Department's response to the NRC's April 10, 2004. letter to M. Chu, DOE, regarding that evaluation by NRC of the documents intended to support the YMLA.
- 10:00 - 10:15 A.M. ***BREAK*****
- 18) 10:15 - 12:30 P.M. Preparation of ACNW Reports (Open) (All)
The Committee will discuss potential reports on:
18.1) Decommissioning Program Changes (MTR/HJL)
18.2) NRC Independent Evaluation of DOE Documents Supporting the YMLA (MTR/MPL)
18.3) Geosphere Transport Working Group (GMH/NMC)
18.4) Treatment of Uncertainties in Hydrologic Models (GMH/NMC)
- 12:30 - 1:30 P.M. ***LUNCH*****
- 19) 1:30 - 2:45 P.M. Preparation for Meeting with the NRC Commissioners (Open) (MTR, et.al/JTL, et.al)
The Committee will finalize its viewgraphs for the proposed July 21, 2004 meeting with the NRC Commissioners.
- 20) 2:45 - 3:00 P.M. Miscellaneous (Open)
The Committee will discuss matters related to the conduct of Committee activities and matters and specific issues that were not completed during previous meetings, as time and availability of information permit.
- 3:00 p.m. Adjourn 151st Meeting**

NOTE:

- **Presentation time should not exceed 50 percent of the total time allocated for a specific item. The remaining 50 percent of the time is reserved for discussion.**
- **Thirty-five (35) hard copies and (1) electronic copy of the presentation materials should be provided to the ACNW.**
- **ACNW meeting schedules are subject to change. Presentations may be canceled or rescheduled to another day. If such a change would result in significant inconvenience or hardship, be sure to verify the schedule with Mr. Howard Larson at 301-415-6805 between 8:00 a.m. and 4:00 p.m., several days prior to the meeting.**